

FIG.1

101 PUBLIC NETWORK  
102 PRIVATE NETWORK  
103 PUBLIC WIRELESS LAN SYSTEM  
5 104 NETWORK RELAY APPARATUS  
105 VIRTUAL PRIVATE NETWORK RELAY APPARATUS  
106 HOME AGENT  
107 PUBLIC WIRELESS LAN  
108 CONNECTION AUTHENTICATION SERVER  
10 109 WIRELESS LAN ACCESS POINT  
110 MOBILE WIRELESS TERMINAL APPARATUS

FIG.2

110 MOBILE WIRELESS TERMINAL APPARATUS  
15 201 AUTHENTICATION PROCESSING SECTION  
202 ADDRESS NOTIFYING SECTION  
203 ADDRESS ACQUIRING SECTION  
204 IPsec SHARED KEY ACQUIRING SECTION  
205 IPsec KEY EXCHANGING SECTION  
20 206 MIP SHARED KEY ACQUIRING SECTION  
207 MIP REGISTERING SECTION

FIG.3

105 VIRTUAL PRIVATE NETWORK RELAY APPARATUS  
25 301 ADDRESS ACQUIRING SECTION  
302 IPsec SHARED KEY ACQUIRING SECTION  
303 IPsec KEY EXCHANGING SECTION

FIG. 4

108 CONNECTION AUTHENTICATION SERVER  
401 AUTHENTICATION PROCESSING SECTION  
5 402 ADDRESS NOTIFYING SECTION  
403 ADDRESS ACQUIRING SECTION  
404 IPsec SHARED KEY DISTRIBUTING SECTION  
405 MIP SHARED KEY DISTRIBUTING SECTION

10 FIG. 5

109 WIRELESS LAN ACCESS POINT  
501 AUTHENTICATION RELAY SECTION

FIG. 6

15 106 HOME AGENT  
601 MIP SHARED KEY ACQUIRING SECTION  
602 MIP PROCESSING SECTION

FIG. 7

20 105 VIRTUAL PRIVATE NETWORK RELAY APPARATUS  
106 HOME AGENT  
108 CONNECTION AUTHENTICATION SERVER  
109 WIRELESS LAN ACCESS POINT  
110 MOBILE WIRELESS TERMINAL APPARATUS  
25 STEP  
CONNECTION AUTHENTICATION PROCEDURES  
PERMISSION OF CONNECTION

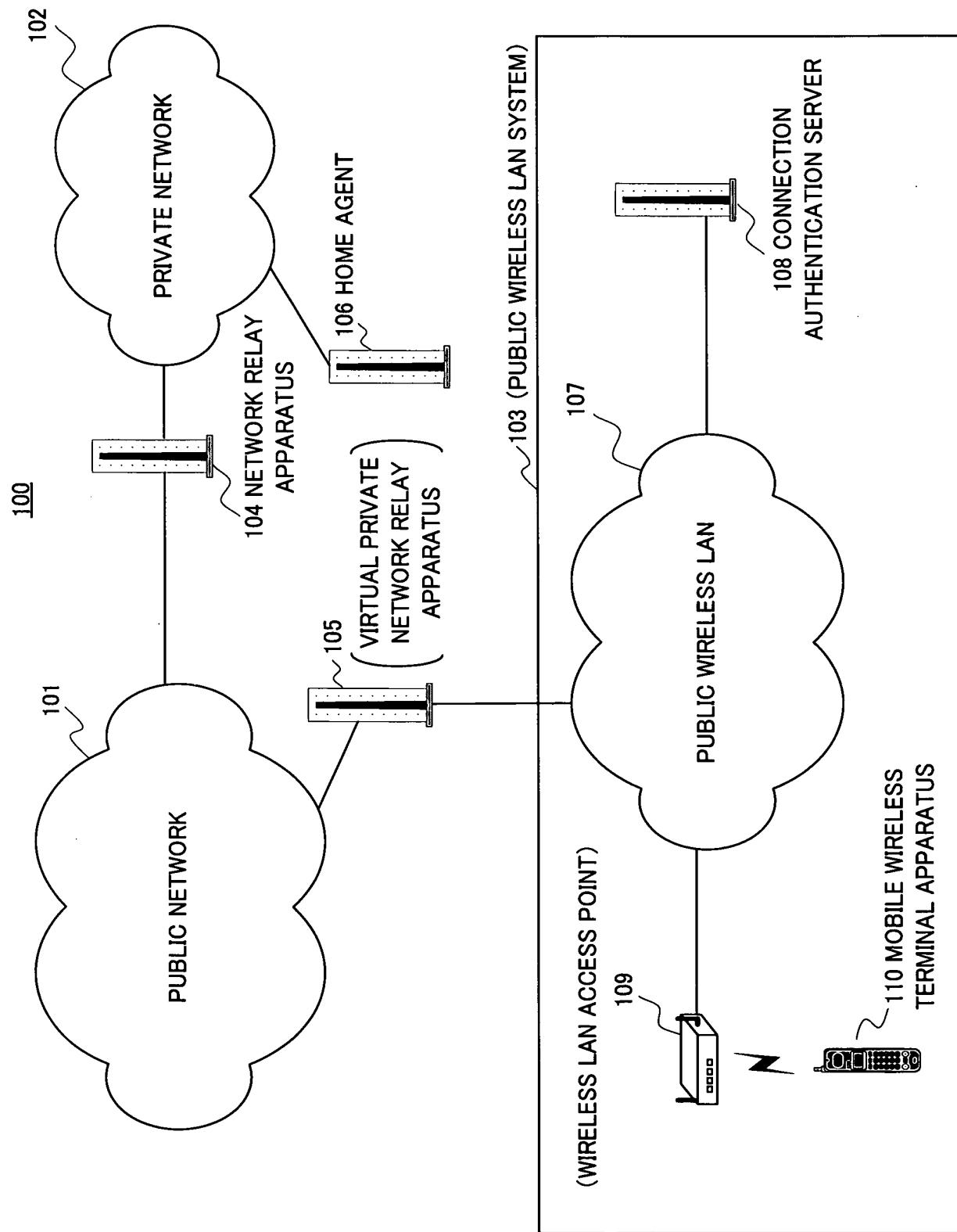


FIG.1

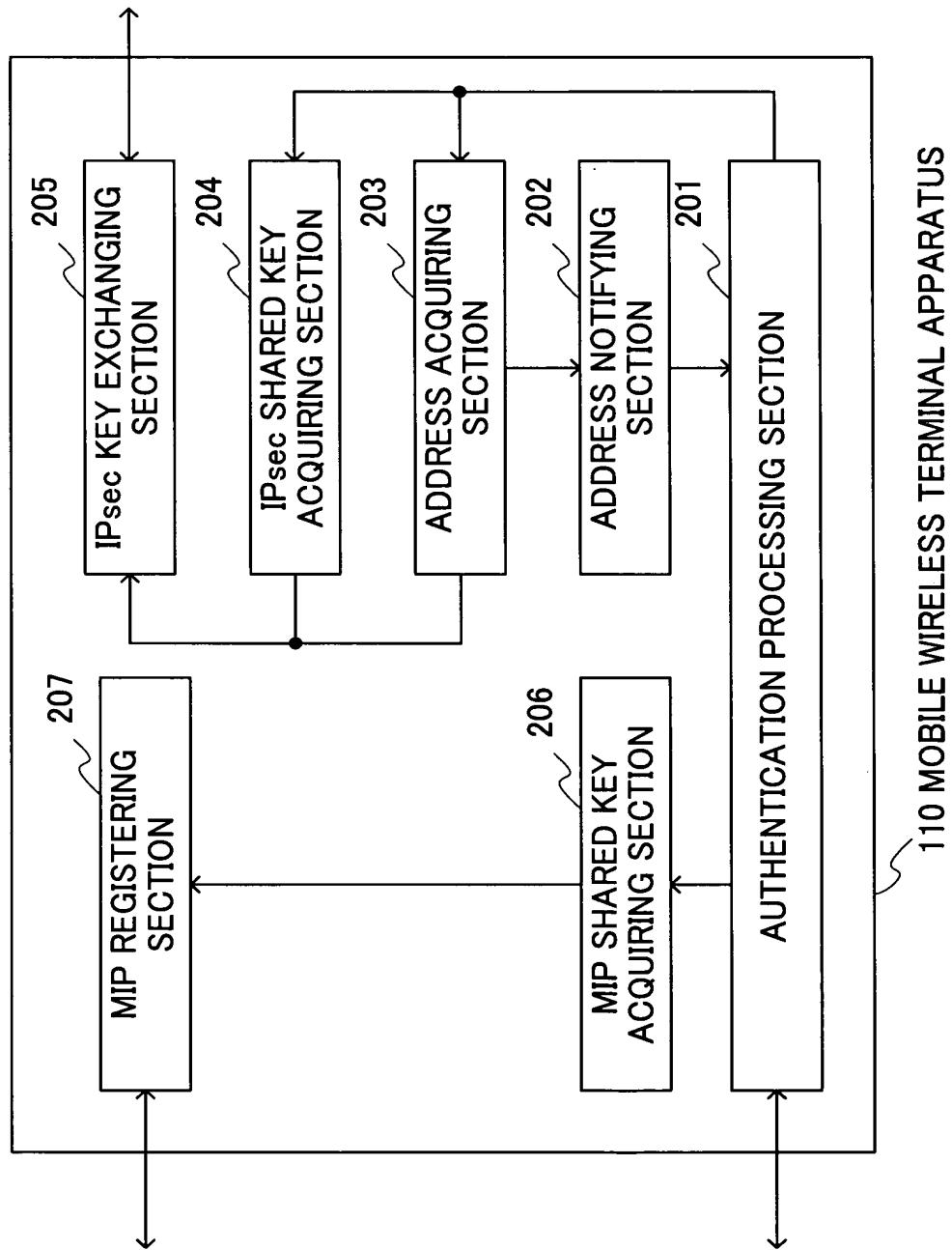
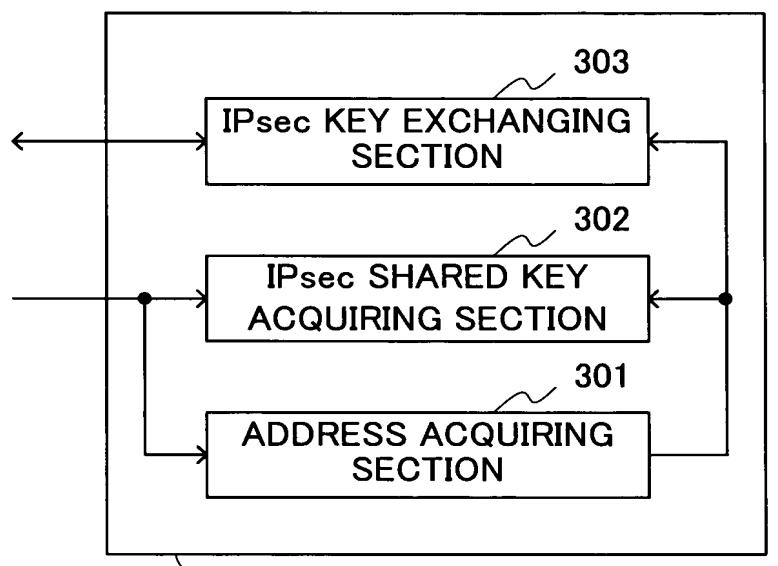


FIG.2



105 VIRTUAL PRIVATE NETWORK  
RELAY APPARATUS

FIG.3

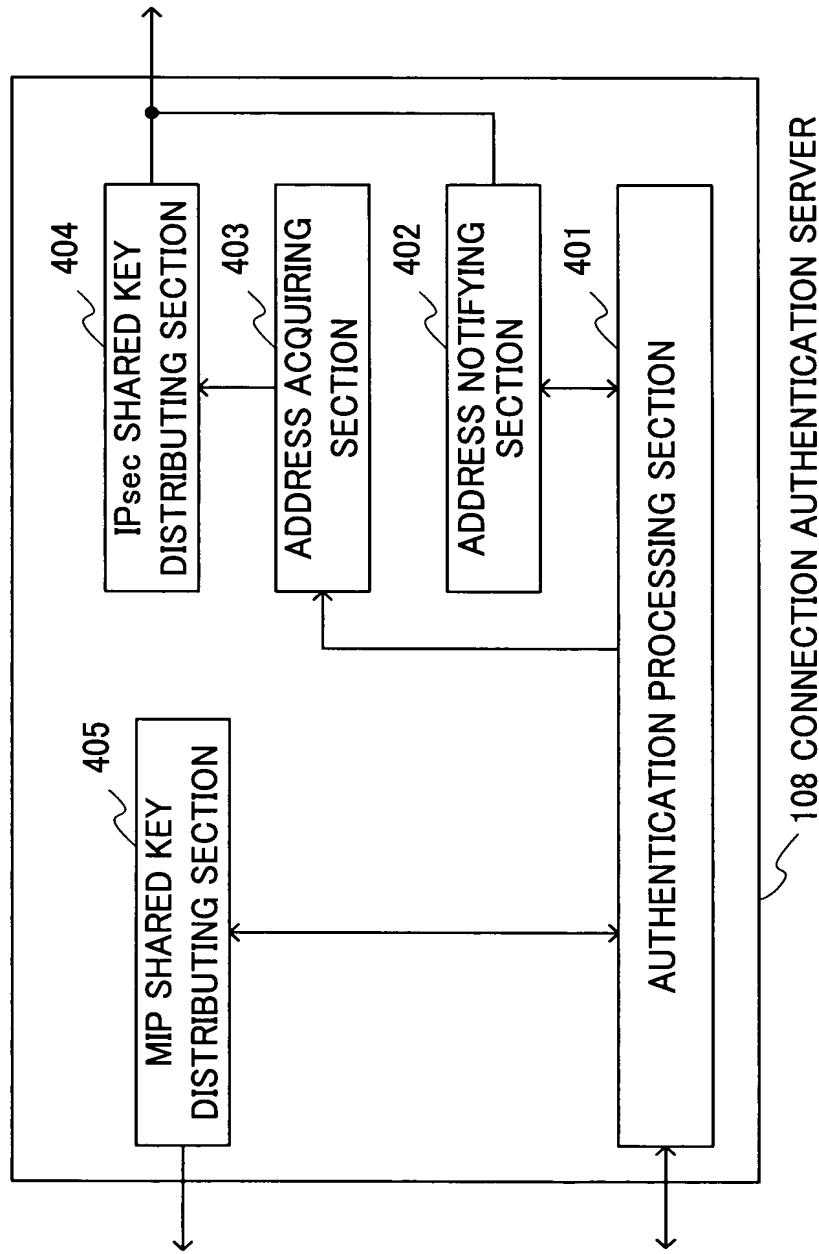


FIG. 4

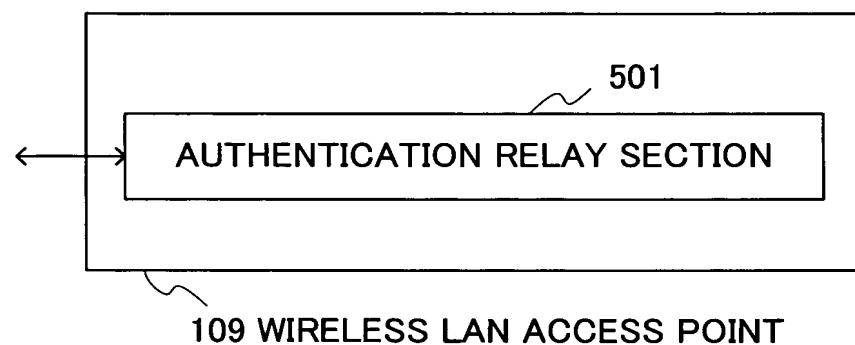


FIG.5

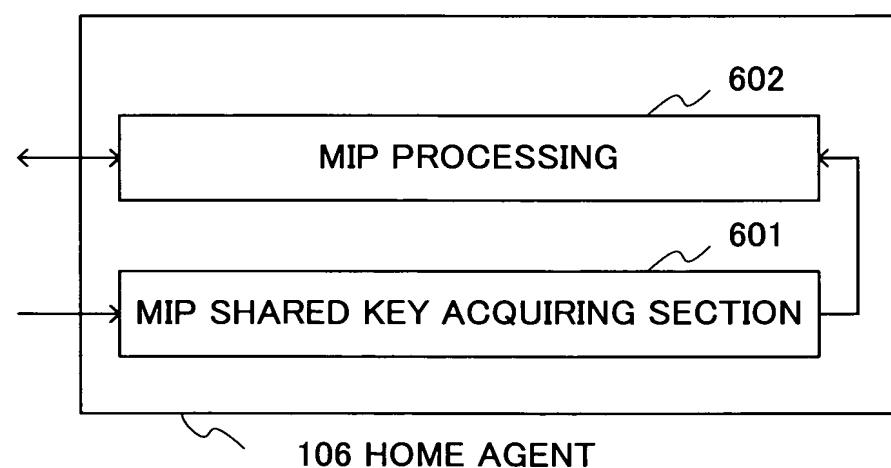


FIG.6

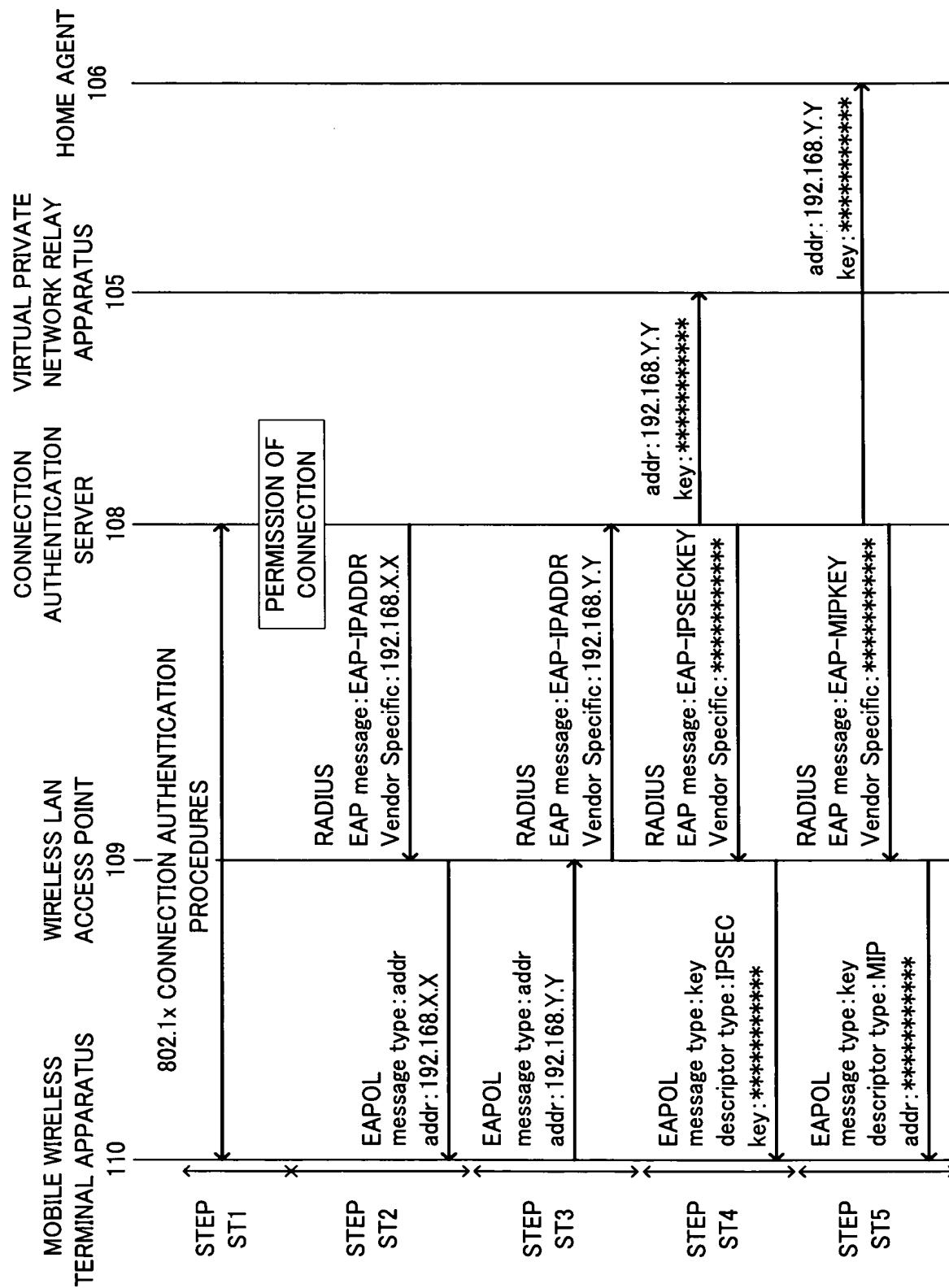
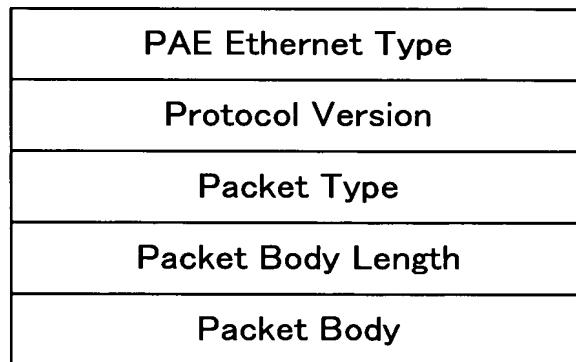
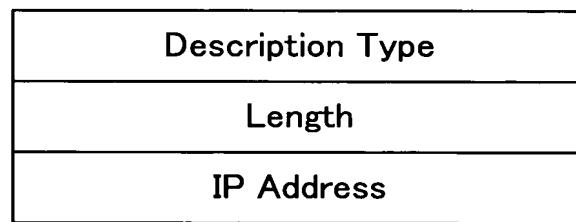


FIG. 7



**FIG.8**



**FIG.9**